

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"5004554".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 09:30
L2	2	("5004554").URPN.	USPAT	OR	ON	2006/10/03 06:17
L3	6	("5431833").URPN.	USPAT	OR	ON	2006/10/03 06:21
L4	2	"5431833".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 07:34
L5	337	560/182.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 07:35
L6	2	"5536425".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 09:35
L7	6706	perfluoropolyether	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 10:19
L8	822698	ester	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 09:36
L9	63	l7 adj l8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 09:39
L10	134707	dicarboxylic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 10:56
L11	6	l9 and l10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 09:41
L12	1	"03756649"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 09:48
L13	2	"6013712".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 09:52

## EAST Search History

L14	2	"6103677".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 09:55
L15	2	"6469217".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 09:55
L16	576502	polyester	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 10:20
L17	1201	I7 and I16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 10:20
L18	134	I7 same I16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 10:20
L19	56	I7 near10 I16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 10:20
L20	1	(dicarboxylic and (perfluoropolyether adj ester)and diol).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 10:58
L21	2	(dicarboxylic and (perfluoropolyether and ester)and diol).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/03 10:59
L22	2	(dicarboxylic and (perfluoropolyether and ester)and diol).clm.	US-PGPUB	OR	ON	2006/10/03 11:09
L23	85	(dicarboxylic and (perfluoropolyether)and diol)	US-PGPUB	OR	ON	2006/10/03 13:23
L24	0	I5 and I23	US-PGPUB	OR	ON	2006/10/03 11:09
L25	4	508/455.ccls.	US-PGPUB	OR	ON	2006/10/03 13:23

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L1 2156 PERFLUOROPOLYETHER  
(PERFLUOROPOLYETHER OR PERFLUOROPOLYETHERS)

=> dicarboxylic  
63242 DICARBOXYLIC  
12 DICARBOXYLICS  
L2 63244 DICARBOXYLIC  
(DICARBOXYLIC OR DICARBOXYLICS)

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L3 113 L1 AND L

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=> l1 and l2  
L4 13 L1 AND L2

=> d 14 1-13 ti

L4 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Lubricant composition

L4 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Durable magnetic tapes for helical scanning-type recording apparatus and manufacture thereof

L4 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Perfluoropolyether ester compound, lubricant and magnetic recording medium

L4 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Polyamide compositions showing low water absorption and their articles with good dimensional stability and sliding performance

L4 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI A study of the thermal decarboxylation of three perfluoropolyether salts

L4 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Particulate magnetic recording tape showing durable lubricating ability in running

L4 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Process for preparing perfluoropolyethers

L4 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Lubricants and magnetic recording media using them

L4 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation of heat- and cold-resistant solid elastomeric copolymer by polyaddition of perfluoropolyether dicarboxylic acids

L4 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Perfluoropolymer dispersions with improved stability for coatings and additives for detergents and polishing compositions

L4 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Improved method for synthesis of difunctional fluoroalcohols

L4 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Synthesis of perfluoro(polyether) difunctional compounds

L4 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Perfluorinated rubbery polymers

=> d 14 5,7-13 ti fbib abs

L4 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI A study of the thermal decarboxylation of three perfluoropolyether salts  
AN 2003:926771 CAPLUS  
DN 140:181065  
TI A study of the thermal decarboxylation of three perfluoropolyether salts  
AU Marchionni, G.; Petricci, S.; Spataro, G.; Pezzin, G.  
CS Solvay Solexis R&T, Milan, 20021, Italy  
SO Journal of Fluorine Chemistry (2003), 124(2), 123-130  
CODEN: JFLCAR; ISSN: 0022-1139  
PB Elsevier Science B.V.  
DT Journal  
LA English  
AB The thermal decarboxylation of three dicarboxylic perfluoropolyether potassium salts of relatively short chain length has been investigated and the products and kinetics of the main reactions have been defined. From the rate consts. and Arrhenius

parameters data, the second decarboxylation appears to be quant. rather close to the first.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for preparing perfluoropolyethers

AN 2001:814056 CAPLUS

DN 135:358347

TI Process for preparing perfluoropolyethers

IN Saito, Satoru; Tatsu, Haruyoshi; Grinevskaya, Vera

PA Nippon Mektron, Limited, Japan

SO Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1152020	A1	20011107	EP 2001-303993	20010501
	EP 1152020	B1	20050316		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			JP 2000-132590	A 20000501
				JP 2000-229585	A 20000728
	JP 2001316468	A2	20011113	JP 2000-132590	20000501
	JP 2002037880	A2	20020206	JP 2000-229585	20000728
	US 2001050351	A1	20011213	US 2001-845888	20010430
	US 6469217	B2	20021022		
				JP 2000-132590	A 20000501
				JP 2000-229585	A 20000728

OS MARPAT 135:358347

AB Bifunctional title polymers with high d.p. and selectivity are manufactured by polymerization of perfluoroalkylene oxides in the presence of solns. of Cs salts

of perfluoro alcs. prepared by reaction of perfluoro dicarboxylic acid fluorides  $\geq$  72 h with CsF at 0-30° in aprotic solvents.

These catalyst solns. exhibit good dispersion in the polymerization system. A typical catalyst, CsOCF<sub>2</sub>CF(CF<sub>3</sub>)OCF<sub>2</sub>CF<sub>2</sub>OCF(CF<sub>3</sub>)CF<sub>2</sub>OCs, was manufactured by reaction of 9 g CsF with 10.5 g FOCCF(CF<sub>3</sub>)OCF<sub>2</sub>CF<sub>2</sub>OCF(CF<sub>3</sub>)COF in 31.3 g tetraglyme for 12 h to 30 days.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

TI Lubricants and magnetic recording media using them

AN 1999:683277 CAPLUS

DN 131:301329

TI Lubricants and magnetic recording media using them

IN Furuya, Takahiro; Sasamoto, Sayaka; Mizumura, Tetsuo

PA Hitachi Maxell, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11293269	A2	19991026	JP 1999-10126	19990119
				JP 1998-28292	A 19980210
	US 6103677	A	20000815	US 1999-247513	19990210
				JP 1998-28292	A 19980210

AB Lubricants for magnetic recording media contain fluorinated dicarboxylic acids as major components having the general formula A1COOR1RfR2OCOA2, where Rf = perfluoropolyether group, R1 and R2

= OH-containing C $\geq$ 3 hydrocarbyl groups, A1 and A2 = R(S)kCH[(CH<sub>2</sub>)<sub>m</sub>COOH](CH<sub>2</sub>)<sub>n</sub>, R = H or hydrocarbyl group, and m, n, and k = 0 or 1.

L4 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Preparation of heat- and cold-resistant solid elastomeric copolymer by polyaddition of perfluoropolyether dicarboxylic acids  
 AN 1999:208646 CAPLUS  
 DN 130:268408  
 TI Preparation of heat- and cold-resistant solid elastomeric copolymer by polyaddition of perfluoropolyether dicarboxylic acids  
 IN Itaru, Harumi  
 PA Nippon Mektron Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11080345	A2	19990326	JP 1997-249486 JP 1997-249486	19970829 19970829

AB Title solid elastomer is prepared by polymerizing directly a perfluoropolyether dicarboxylic acid HOOCCFXO(CF<sub>2</sub>CFXO)<sub>p</sub>(CF<sub>2</sub>)<sub>r</sub>(OCFXCF<sub>2</sub>)<sub>q</sub>OCFXCOOH (I; X = F, CF<sub>3</sub>; p = q = 2-100; r = 2-5) with a bisimidazoline, a bisoxazoline, or a bisoxazine. Thus, 250 parts I (X = CF<sub>3</sub>; r = 2; p + q = 32) was reacted with 8.5 parts tetramethylene bisimidazoline (prepared from ethylene diamine and adiponitrile) to give a polymer having Tg -25° and Mooney viscosity ML1+10 (121°, L rotor) 15 pts.

L4 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Perfluoropolymer dispersions with improved stability for coatings and additives for detergents and polishing compositions  
 AN 1999:96062 CAPLUS  
 DN 130:140609  
 TI Perfluoropolymer dispersions with improved stability for coatings and additives for detergents and polishing compositions  
 IN Chittofrati, Alba; Lazzari, Paolo; Lenti, Daria  
 PA Ausimont S.p.A., Italy  
 SO Eur. Pat. Appl., 15 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 894838	A2	19990203	EP 1998-114138	19980729

EP 894838 A3 19990602 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

US 6013712	A	20000111	IT 1997-MI1833 US 1998-124966	A 19970731 19980730
JP 11147987	A2	19990602	IT 1997-MI1833 JP 1998-218212	A 19970731 19980731

AB Title dispersions comprise 0.1-30 weight% of polytetrafluoroethylene or tetrafluoroethylene copolymers with other ethylenically unsatd. monomers, 50-99 weight% of a fluorinated liquid, a polar solvent (water and/or alc.) complement to 100, and 0.01-5 weight% of a surfactant. The surfactant can be (a) nonionic hydrogenated or (b) fluorinated, having a perfluoropolyether or perfluoroalkylic chain, being of both ionic and nonionic type, and being selected from (A) mono- and dicarboxylic acid salts, (B) sulfonic acid salts, (C) phosphoric mono- and diesters and their mixts., (D) nonionic surfactants formed by

fluorinated and polyoxyalkylenic chains with a number of oxyalkylenic repeating units >6, (E) cationic surfactants having one or more fluorinated hydrophobic chains.

L4 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Improved method for synthesis of difunctional fluoroalcohols  
AN 1994:8176 CAPLUS  
DN 120:8176  
TI Improved method for synthesis of difunctional fluoroalcohols  
AU Juhike, T. J.; Bierschenk, T. R.; Kawa, H.; Lagow, R. J.  
CS Exfluor Res. Corp., Austin, TX, USA  
SO Report (1991), Order No. AD-A245070, 46 pp. Avail.: NTIS  
From: Gov. Rep. Announce. Index (U. S.) 1992, 92(9), Abstr. No. 222,829  
DT Report  
LA English  
OS CASREACT 120:8176  
AB A series of fluorinated diacids were prepared by the direct fluorination of hydrocarbon acid derivs. with fluorine gas. These diacids were then reduced to fluorinated alc. with sodium borohydride. A miniplant capable of producing fluorinated diols at a rate of five pounds per day was constructed to demonstrate the technol. The resulting diols were obtained in much better yields than by conventional synthetic fluorocarbon chemical. In addition, diols of perfluoropolyether acids were made that are not available using other synthetic methods. The compds. prepared for this contract were 2,2,3,3,4,4-hexafluoropentane-1,5-diol, 2,2,3,3,4,4,5,5-octafluorohexane-1,6-diol, 2,2,4,4,5,5,7,7-octafluoro-3,6-dioxaoctane-1,8-diol, and 2,2,3,3,4,4,6,6,7,7,8,8,9,9,11,11,12,12,13,13,14,14,16,16,17,17,18,18-octacosafuoro-5,10,15-trioxanonadecane-1,19-diol.

L4 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Synthesis of perfluoro(polyether) difunctional compounds  
AN 1978:508039 CAPLUS  
DN 89:108039  
TI Synthesis of perfluoro(polyether) difunctional compounds  
AU Soloski, E. J.; Tamborski, C.; Psarras, T.  
CS Air Force Mater. Lab., Wright-Patterson AFB, OH, USA  
SO Journal of Fluorine Chemistry (1978), 11(6), 601-12  
CODEN: JFLCAR; ISSN: 0022-1139  
DT Journal  
LA English  
AB  $\omega$ -Iodoperfluoro(polyether) esters IRfOQfCO<sub>2</sub>R (I; Rf = perfluoroalkylene, Qf = perfluoroalkylene moiety containing O atoms in chain, R = Me or Et) were prepared by 2 procedures. I reacted via Zn coupling reactions to give  $\alpha$ , $\omega$ -perfluoro(polyether) diesters. The diesters serve as convenient starting materials for the preparation of a variety of other difunctional compds. of high mol. weight and exhibiting a variation of O-C ratio.

L4 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Perfluorinated rubbery polymers  
AN 1969:413967 CAPLUS  
DN 71:13967  
TI Perfluorinated rubbery polymers  
PA Minnesota Mining and Manufacturing Co.  
SO Fr., 8 pp.  
CODEN: FRXXAK  
DT Patent  
LA French  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI FR 1524639	-----	19680510	FR 1967-107951	19670526

AB The title polymers, which are resistant to solvents and stable at high temperature, are prepared from perfluorodi-carboxylic acids by pyrolysis of the corresponding Hg salts, and by uv irradiation or heating of the related

nitriles in the presence of HCl. Thus, 10 g. of the Hg salt of perfluoro-4-oxaheptanedioic acid was heated 45 min. at 150-200°/16 mm. The temperature was then raised to 230° in 10 min. and slowly to 300° in 2 hrs., after which CO<sub>2</sub> evolution became quite slow. The pressure and temperature were then raised to 150 mm. and 350° in the course of 2 hrs., and heating was continued at 345-65° for 2 hrs., while allowing the pressure to rise to atmospheric. The rubbery polymeric product

was washed with  $\text{HNO}_3$ ,  $\text{H}_2\text{O}$ , and  $\text{Me}_2\text{CO}$  and agitated with a perfluorinated cyclic ether (FC 75) for 2 days. The resultant mixture was filtered, and the insol. residue was dried in vacuo at  $75^\circ$  to yield 0.5 g. of grayish elastomer, the ir spectrum of which indicated a structure  $[\text{O}(\text{CF}_2)_4]_n$  terminated with carboxyl groups. Polymers were similarly prepared from the  $\text{Hg}$  salts of perfluoroglutaric acid, a mixture (I) containing  $\text{HO}_2\text{C}[\text{CF}(\text{CF}_3)\text{OCF}_2]_3(\text{CF}_2)_4[\text{CF}_2\text{OC}(\text{CF}_3)]_3\text{CO}_2\text{H}$ ,  $\text{HO}_2\text{C}[\text{CF}(\text{CF}_3)\text{OCF}_2]_2(\text{CF}_2)_4[\text{CF}_2\text{OC}(\text{CF}_3)]_4\text{CO}_2\text{H}$ , and  $\text{HO}_2\text{CCF}(\text{CF}_3)\text{O}(\text{CF}_2)_5[\text{CF}_2\text{OC}(\text{CF}_3)]_5\text{CO}_2\text{H}$ , and the acid trimer from  $\text{NC}(\text{CF}_2)_3\text{COCl}$ ,  $\text{HO}_2\text{C}(\text{CF}_2)_5\text{O}(\text{CF}_2\text{CF}_2\text{O})_4\text{CF}_2\text{CO}_2\text{H}$ , and perfluorobutyric acid. In another example, the dinitrile of a mixture (II) analogous to I with the formula  $\text{C}_{58}\text{F}_{112}\text{O}_{20}\text{H}_2$  was heated 8 hrs. at  $200-50^\circ$  in a sealed tube in the presence of anhydrous  $\text{HCl}$ , after which  $\text{HCl}$  was removed in vacuo to give a rubbery product, which was insol. in perfluoroheptane (III) and contained triazine units. Irradiation of the dinitrile of II with unfiltered uv light also gave a rubbery solid which was insol. in III and contained polyazine units.

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USPATFULL/USPAT2  
NEWS 8 MAY 30 The F-Term thesaurus is now available in CA/CAplus  
NEWS 9 JUN 02 The first reclassification of IPC codes now complete in  
INPADOC  
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and

and display fields

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NEWS 13 JUL 14 FSTA enhanced with Japanese patents  
NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI  
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive  
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NEWS 17 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes  
NEWS 18 SEP 11 CA/CAplus enhanced with more pre-1907 records  
NEWS 19 SEP 21 CA/CAplus fields enhanced with simultaneous left and right truncation  
NEWS 20 SEP 25 CA(SM)/CAplus(SM) display of CA Lexicon enhanced  
NEWS 21 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates  
NEWS 22 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine  
NEWS 23 SEP 28 CEABA-VTB classification code fields reloaded with new classification scheme

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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